Bruhat Bangalore Mahanagara Palike

Name of Work : Improvements & Repairs to Samudaya Bhavana Building at Yelahanka 4th phase in Someshwara Ward Number -3 Of Yelahanka Satellite Town Sub Division

Estimate Cost 1000000

Sl No	Description of Item	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
1	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. Depth exceeding 1.5m, but not exceeding 3 m (PWD SR 2021-22 Vol -I Pg 5 item No. 1.4.2)								
	Footing	Cum	2	1.10	1.1	1.50	3.63		
	Basic rate							**199.00**	
	Area weightage 10%							**19.9**	
	Total						**3.63**	**218.9**	**794.61**
2	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. Specification No. (PWD SR 2021-22 Vol -2 CORRIGENDA,item No. 6.4)								
	Footing	Cum	2.00	1.10	1.10	0.30	0.726		
	Basic rate							**2561.00**	
	Area weightage 10%							**256.10**	
	Total						**0.73**	**2671.90**	**1939.80**
3	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates.Specification (PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3)								
	For Footing	Cum	2	1.10	1.10	0.15	0.36		
	For Cobble Stone	Cum	1	15.20	3.10	0.15	7.07		
		Cum	1	18.00	4.00	0.15	10.80		
	Basic rate							**5554.00**	
	Area weightage 10%							**555**	
	Total						**18.23**	**6109.4**	**111380.47**
4	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m. ((PWD SR 2021-22 Vol- 1 P.No -7 / I.No -1.9)								
	Filling Available of Excavated Earth								
	Earth Work Excavation	Cum	From Item No. 01				3.63		
	PCC	Cum	From Item No. 03				-0.36		
	Filling in foundation with granite / trap broken metal	Cum	From Item No. 02				-0.73		
	Footing Concrete Quantity	Cum	From Item No. 07				-0.64		
	Basic rate							204.00	
	Area weightage 10%							20.40	
	Total						**1.90**	**224.40**	**426.14**
5	Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 5.5 m3) (PWD SR 2021-22 Vol-III Page No.3, Item No.1.1A)								
	Excavated Earth	Cum					3.63		

Scanned with CamScanner

	Filling Available of Excavated Earth						-1.90		
	Basic rate							**118.00**	
	Area weightage 10%							**11.80**	
	Total						**1.73**	**129.80**	**224.68**
6	Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km (PWD SR 2021-22 Vol-III Page No.3, Item No.1.4A)								
	Qty frm Item No-5	t.Km		1.73		1.280	2.22		
	Basic rate							**12.00**	
	8Km 12*8							**96.00**	
	Area weightage 10%							**9.60**	
	Total						**2.22**	**105.60**	**233.98**
7	Providing and laying in position Reinforced cement concrete for all **Sub structures of building,** Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/ trap/ basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) **M25** Design Mix Using 20 mm nominal size graded crushed coarse aggregates (Vol 2/ P No-17/ I no- 2.4.3 of PWD SR 2021-22)								
	For Footing								
	Footing	Cum	2.00	1.10	1.10	0.30	0.73		
	Column	Cum	2.00	0.20	0.20	1.05	0.08		
	Basic rate							5992.00	
	Add 8% For Shuttering							479.36	
	Sub Total							**6471.36**	
	Area weightage 10%							647.14	
	Total						**0.81**	**7118.50**	**5765.98**
8	Providing and laying in position Reinforced cement concrete for all **Super structures of building** , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/ basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) **M25 Design Mix** Using 20 mm nominal size graded crushed coarse aggregates (Vol 2/ P No-17/ I no- 2.5.2 of PWD SR 2021-22)								
	Column above Ground Level	Cum	2.00	0.20	0.20	1.60	0.13		
	Slab	Cum	1.00	2.90	2.90	0.15	1.26		
	Basic rate							6186.00	
	Add 10% For Shuttering							618.60	
	Sub Total							**6804.60**	
	Area weightage 10%							680.46	
	Total						**1.39**	**7485.06**	**10400.49**
9	Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately). (PWD SR 2021-22 Vol -II Pg 84 item no 11.32)								
	Footing	Cum					0.73		
		Kg	Steel assumed 100 Kg/Cum of Concrete				72.96		
	Column	Cum					0.21		
		Kg	Steel assumed 200 Kg/Cum of Concrete				42.51		
	Slab	Cum	Concrete Quantity				1.26		
		kg	Steel assumed 120 Kg/Cum of Concrete				151.38		
	Basic rate							96.00	
	Area weightage 10%							9.60	
	Total						**266.85**	**105.60**	**28179.25**

Scanned with CamScanner

10	**Fabricating, providing and erecting in position Hot dip galvanised Gate.** Using 72 X 72 X 4.8mm Sq. GI Pipe Frame with Top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanised sq. rod for verticals at 150mm c/c, as shown in the drawing including providing hot dip galvanised forged ornamental design in between sq. rods and heads at top, middle and bottom. Intermediate supports of 75X12 mm and 50X6 mm arch bend to hot dip galvanised flats. The work is inclusive of throughing GI flat GI sq. rods, placing, welding all the joints including grinding, finishing metal putty, painting two coats enamel painting. The rate is inclusive of all materials like GI sq. pipe, GI sq. rods, GI forged designs etc., heavy duty hinges are made out of 75mm solid sq. block assembled with 20mm dia bearing in three places for each flop. Heavy Duty Locking arrangements at tow places including cost of labour, painting, erecting charges using hoist pulley cranes with all lead and lift, loading, transportation, unloading, scaffolding charges and all other incidental charges for successful completion of the work as per directions of the Engineer-in-charge of the work. (Data Rate)								
	New Gate	Sqm	1	5.2		1.50	7.80		
	Data Rate							12475.00	
	Total						**7.80**	**12475.00**	**97305.00**
11	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (Vol 2/ P No-17/ I no- 6.32 of PWD SR 2021-22)								
	Construction of wall on top building for Sintex								
	Wall								
	Short wall	Sqm	2.00	2.90		0.40	2.32		
	Long wall	Sqm	1.00	2.90		1.30	3.77		
	Basic rate							**1196.00**	
	Area weightage 10%							**119.6**	
	Total						**6.09**	**1315.60**	**8012.004**
12	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge (Vol 2/ P No-41/ I no- 8.3.1 of PWD SR 2021-22)								
	Out side plastering								
	Short wall	Sqm	2.00	2.90		0.40	2.32		
	Long wall	Sqm	2.00	2.90		1.30	7.54		
	Basic rate							**299.00**	
	Area weightage 10%							**29.90**	
	Total						**9.86**	**328.90**	**3242.95**
13	Providing 18 mm cement plaster in two coats under layer 12 mm thick cement plaster with cement mortar 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster with cement mortar 1:3 (1 cement: 3 coarse sand) finished rough with sponge to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (PWD SR 2021-22 Vol -II Pg 42 item no 8.9)								
	Inside plastering								
	Short wall	Sqm	2.00	2.90		0.40	2.32		
	Long wall	Sqm	2.00	2.90		1.30	7.54		
	Basic rate							**322.00**	
	Area weightage 10%							**32.20**	
	Total						**9.86**	**354.20**	**3492.41**
14	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. ** Polished Granite stone slab Black, Cherry Red, Brown, Cat Eye, River Pink or equivalent. (PWD SR 2021-22 Vol -II Pg 63 item no 9.24)								
	Provide Granite for Stair case								
	Ground Floor								
	Tread	Sqm	20	1.3	0.30		7.80		

Scanned with CamScanner

Riser	Sqm	22	1.3		0.13	3.72		
Landing	Sqm	1	2	0.85		1.70		
First Floor For Stair Case								
Tread	Sqm	20	1.3	0.30		7.80		
Riser	Sqm	22	1.3		0.13	3.72		
Landing	Sqm	1	2	0.85		1.70		
In First Floor								
Floor Granate	Sqm	1	4.07	3.00		12.21		
Basic rate							**2870.00**	
Area weightage 10%							**287**	
Total						**38.65**	**2870**	**110914.02**

15 Finishing walls with Acrylic Smooth exterior paint of required shade :New work (Two coat applied @ 1.67 ltr/10 m² over and including priming coat of exterior primer applied @ 2.20 kg/10 m²) with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.(PWD SR 2021-22 Vol -II Pg 46 item no 8.30)

out side Painting								
Ground Floor								
wall								
	Sqm	2	23.30		3.12	145.392		
	Sqm	2	6.70		3.12	41.808		
Chejja	Sqm	16	2.40	0.60		23.04		
1st Floor								
wall								
	Sqm	2	23.30		3.12	145.392		
	Sqm	2	6.70		3.12	41.808		
Chejja	Sqm	16	2.40	0.60		23.04		
Parapet Wall								
	sqm	2	21.00		0.85	35.7		
	sqm	2	6.7		0.85	11.39		
	sqm	2	4.15		0.85	7.055		
Top	sqm	1	63.70	0.15		9.555		
Deducation for Painting								
Gate	sqm	-1	3	2.1		-6.3		
D	sqm	-1	1	2.1		-2.1		
V	sqm	-3	0.45	0.45		-0.6075		
W	sqm	-8	1.8	1.2		-17.28		
W1	sqm	-1	1.24	1.2		-1.488		
Basic rate							**136.00**	
Area weightage 10%							**13.6**	
Total						**456.40**	**149.6**	**68278.11**

16 Finishing with Epoxy paint (two coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete. On concrete work including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.(PWD SR 2021-22 Vol -II Pg 48 item no 8.36.2)

Inside Painting								
Ground Floor								
Room 1	sqm	2	20.72		3.00	124.32		
	sqm	2	6.24		3.00	37.44		
	sqm	1	20.72	6.24		129.2928		
Varandha & Stair case	sqm	2	6.60		3.00	39.6		
	sqm	2	2.30		3.00	13.8		
Roof sealing paint	sqm	1	6.60	2.30		15.18		
Parapet wall								

Scanned with CamScanner

	sqm	2	21.00		0.85	35.7		
	sqm	2	6.7		0.85	11.39		
	sqm	2	4.15		0.85	7.055		
Top	sqm	1	63.70	0.15		9.555		
1st Floor								
Room 1	sqm	2	20.72		3.00	124.32		
	sqm	2	6.24		3.00	37.44		
Roof Sealing paint	sqm	1	20.72	6.24		129.2928		
Varandha & Stair case	sqm	2	6.60		3.00	39.6		
	sqm	2	2.30		3.00	13.8		
Roof sealing paint	sqm	1	6.60	2.30		15.18		
Deducation for Painting								
Gate	sqm	-1	3	2.1		-6.3		
M.D	sqm	-1	2	2.1		-4.2		
D	sqm	-1	1	2.1		-2.1		
V	sqm	-3	0.45	0.45		-0.6075		
W	sqm	-8	1.8	1.2		-17.28		
W1	sqm	-1	1.24	1.2		-1.488		
Basic rate							**138.00**	
Area weightage 10%							**13.8**	
Total						**750.99**	**151.80**	**114000.30**

17 Providing and laying water proofing treatment to the Roof with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC:Bathroom, cold applied PU waterproofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The waterproofing membrane to be applied in 2coats @ 1.6kg per m2 to achieve final DFT (dry film thickness) of 1mm including prime coat of epoxy primer @150 g per m2 and protection with 120gsm Geo-textile over the waterproofing membrane. The finished cost to include surface preparation, making coving at Junction, Bore Packing, treatment of construction joints completely as per specification & with a 10 years warranty on product & work from certified manufacturers as per the direction of the Engineer In charge. (PWD SR 2021-22 Vol -II Pg 133 item no 15.1)

For Sump								
	Sqm	1	2.95	2.95		8.70		
Terrace								
	Sqm	1	21.00	6.70		140.70		
	Sqm	1	4.15	3.03		12.57		
Basic rate							**745.00**	
Area weightage 10%							**74.50**	
Total						**161.98**	**819.50**	**132740.15**

18 Providing and laying heavy duty cobble stones 75mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per m2 over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and Usage charges of machinery complete as per specifications. (PWD SR 2021-22 Vol II Pg no 64 Item No 9.32)

Cobble Stone								
	Sqm	1.00	15.20	3.10		47.12		
	Sqm	1.00	18.00	4.00		72.00		
Basic rate							**1145.00**	
Area weightage 10%							**114.50**	
Total						**119.12**	**1259.50**	**150032.00**

Scanned with CamScanner

						Total Amount	847362.35
						GST Charges (18% of estimated cost)	152525.22
						Miscellenious and Rounding	112.42
						Total Amount	1000000.00

CERTIFICATE:

1) The work spot has been inspected and found to be necessary

2) The work spot comes under B.B.M.P

3) The provisions made in the estimate are necessary and minimum.

4) The estimate is based on S.R of 2021-2022, Data Rates, Issused Rates and Corrigenda 1 & 2.

Administrative Sanction for Rs. 10.00 lakhs
Rupees Ten Lakhs Only
is accorded under head P-3726
Zonal Public Works.
Registered as CE No. 31 Subject to conditions contained in enclosed memo No. BBMP/EE/YNK-D/AS/31/22-23 Dt. 28/08/22

Executive Engineer

TECHNICALLY SANCTIONED FOR Rs. 10.00 lakhs
Rupees Ten lakhs Only
Under P-3726
Zonal Public Works
Registered as CE ( ) No. 99
Subject to conditions contained in enclosed memo EE ( ) No. 34 /91
Dt. 23/8/2022 Estimate A/ Sanctioned
BBMP/EE/YNK-D/TS/34/22-23 No. 34
Dated 23/8/2022 Rs. 10.00 Lakhs

Executive Engineer

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

Scanned with CamScanner